

State of Montana  
Department of Environmental Quality  
Helena, Montana 59620

**AIR QUALITY OPERATING PERMIT NUMBER OP2782-04**

Administrative Amendment Application Received: October 16, 2003  
Application Deemed Administratively Complete: October 16, 2003  
Application Deemed Technically Complete: October 16, 2003  
AFS Number: 030- 101-0008A

Date of Decision: November 25, 2003  
Effective Date: December 27, 2003  
Expiration Date: January 3, 2004

In accordance with the Montana Code Annotated sections 75-2-217 and 218, and Administrative Rules of Montana (ARM), Title 17, Chapter 8, Subchapter 12, Operating Permit Program, ARM 17.8.1201, *et seq.*,

**NorthWestern Corporation  
Telstad Field Station  
NE ¼ of the NE ¼ of Section 34, Township 32 North, Range 1 East, Toole County, Montana  
40 East Broadway  
Butte, Montana 59701**

hereinafter referred to as "NorthWestern," is authorized to operate a stationary source of air contaminants consisting of the emission units described in this permit. Until this permit expires, is modified or revoked, NorthWestern is allowed to discharge air pollutants in accordance with the conditions of this permit. All conditions in this permit are federally and state enforceable, unless otherwise specified. Requirements that are only state enforceable are identified in the permit. A copy of this permit must be kept on site at the above-named facility.

Issued by the Department of Environmental Quality

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Signature Date

**Permit Issuance and Appeal Processes:** Pursuant to ARM 17.8.1210(j), the Department of Environmental Quality's (Department) decision regarding issuance of this operating permit is not effective until 30 days have elapsed from the date of the decision issued on November 25, 2003. The decision may be appealed to the Board of Environmental Review (Board) by filing a request for hearing within 30 days after the date of decision. The filing of a timely request for a hearing postpones the effective date of the Department's decision until the Board issues a final decision. If no appeal is filed, the Department will send a notification and final permit cover page to be attached to this document stating that the permit is effective. Questions regarding the effective date, final issuance date, and status of appeals should be directed to the Department.

**Montana Air Quality Operating Permit  
Department of Environmental Quality  
Permitting and Compliance Division**

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## SECTION I - GENERAL INFORMATION

The following general information is provided pursuant to ARM 17.8.1210(1).

Company Name: **NorthWestern Corporation**

Mailing Address: **40 East Broadway**

City: **Butte** State: **Montana** Zip: **59701**

Plant Name: **Telstad Field Station 033-1 through 6**

Plant Location: **NE ¼ of the NE ¼ of Section 34, Township 32 North, Route 1 East in Toole County**

Plant Mailing Address: **40 East Broadway, Butte MT 59701**

Responsible Official: **Dave Gates**

Phone: **(406) 497-2164**

Facility Contact Person: **Rick Walsh**

Phone: **(406) 497-3917**

Primary SIC Code: **4923**

Nature of Business: **Natural Gas Transmission**

Description of Process: **The purpose of the NorthWestern - Telstad facility is to boost the field gas to the natural gas transmission system. This initial compression of the gas is accomplished with the compressor engines and turbines. The heaters provide the heat to the various station facilities. Another purpose of the complex is to "dry" the gas as it is being processed. The gas contains some moisture, which must be removed from the system prior to being sent into the transmission system. This is accomplished with a dehydrator, also commonly called a reboiler or glycol unit. The gas is treated with a glycol solution, which absorbs the water in the gas stream. The glycol solution is then heated to about 300°F to drive off the water and return the glycol. The heat necessary for this activity is generated by burning natural gas in the dehydrator reboilers. These units range in heat input from 250 - 3000 MBtu/hr.**

## SECTION II - SUMMARY OF EMISSION UNITS

The following emission units are regulated by this permit (ARM 17.8.1211):

<b>Emissions Unit ID</b>	<b>Description</b>	<b>Pollution Control Device/Practice</b>
EU1	300 hp Ingersoll Rand XVG Compressor Engine	None
EU2	300 hp Ingersoll Rand XVG Compressor Engine	None
EU3	Clark RA-8, 800 hp Compressor Engine	None
EU4	AJAX DPC-600, 600 hp Compressor Engine	None
EU5	AJAX DPC-600, 600 hp Compressor Engine	None
EU6	AJAX DPC-160, 160 hp Compressor Engine	None
EU7	Natural Gas Building Heaters, < 4MMBtu/hr	None
EU8	Olman Heath Reboiler, 400 MBtu/hr	None
EU9	Solar Saturn, 1100 hp Turbine Compressor	None
EU10	Solar Saturn, 1100 hp Turbine Compressor	None
EU11	750 Mbtu/hr heating boiler	None
EU13	2 Waukesha Natural Gas Emergency Backup Generators	None
EU14	Fugitive Emissions-Road Dust	None

### SECTION III - PERMIT CONDITIONS

The following requirements and conditions are applicable to the facility or to specific emission units located at the facility (ARM 17.8.1211, 1212, and 1213).

#### A. Facility-Wide

Facility- Wide Permit Conditions				
Condition	Rule Citation	Rule Description	Pollutant/Parameter	Limit
A.1	ARM 17.8.304(1)	Visible Air Contaminants	Opacity	40%
A.2	ARM 17.8.304(2)	Visible Air Contaminants	Opacity	20%
A.3	ARM 17.8.308(1)	Particulate Matter, Airborne	Fugitive Opacity	20%
A.4	ARM 17.8.308(2)	Particulate Matter, Airborne	Reasonable Precautions	-----
A.5	ARM 17.8.308	Particulate Matter, Airborne	Reasonable Precautions - Construction	20%
A.6	ARM 17.8.309	Particulate Matter, Fuel Burning Equipment	Particulate Matter	$E = 0.882 * H^{-0.1664}$ or $E = 1.026 * H^{-0.233}$
A.7	ARM 17.8.310	Particulate Matter, Industrial Processes	Particulate Matter	$E = 4.10 * P^{0.67}$ or $E = 55 * P^{0.11} - 40$
A.8	ARM 17.8.322(4)	Sulfur Oxide Emissions, Sulfur in Fuel	Sulfur in Fuel (liquid or solid fuels)	1lb/MMBtu fired
A.9	ARM 17.8.322(5)	Sulfur Oxide Emissions, Sulfur in Fuel	Sulfur in Fuel (gaseous)	50 gr/100 CF
A.10	ARM 17.8.316	Incinerator	Design	-----
A.11	ARM 17.8.316	Incinerator	Particulate Matter	0.10 gr/scf
A.12	ARM 17.8.316	Incinerator	Opacity	10%
A.13	ARM 17.8.1212	Reporting Requirements	Compliance Monitoring	-----
A.14	ARM 17.8.1207	Reporting Requirements	Annual Certification	-----

#### Conditions

- A.1. Pursuant to ARM 17.8.304(1), NorthWestern shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed on or before November 23, 1968, that exhibit an opacity of 40% or greater averaged over 6 consecutive minutes unless otherwise specified by rule or in this permit.
- A.2. Pursuant to ARM 17.8.304(2), NorthWestern shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed after November 23, 1968, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes unless otherwise specified by rule or in this permit.
- A.3. Pursuant to ARM 17.8.308(1), NorthWestern shall not cause or authorize the production, handling, transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter are taken. Such emissions of airborne particulate matter from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes unless otherwise specified by rule or in this permit.
- A.4. Pursuant to ARM 17.8.308(2), NorthWestern shall not cause or authorize the use of any street, road or parking lot without taking reasonable precautions to control emissions of airborne particulate matter unless otherwise specified by rule or in this permit.

- A.5. Pursuant to ARM 17.8.308, NorthWestern shall not operate a construction site or demolition project unless reasonable precautions are taken to control emissions of airborne particulate matter. Such emissions of airborne particulate matter from any stationary source shall not exhibit an opacity of 20% or greater average over 6 consecutive minutes unless otherwise specified by rule or in this permit.
- A.6. Pursuant to ARM 17.8.309 unless otherwise specified by rule or in this permit, NorthWestern shall not cause or authorize particulate matter caused by the combustion of fuel to be discharged from any stack or chimney into the outdoor atmosphere in excess of the maximum allowable emissions of particulate matter for existing fuel burning equipment and new fuel burning equipment calculated using the following equations:

For existing fuel burning equipment (installed before November 23, 1968):

$$E=0.882 * H^{-0.1664}$$

For new fuel burning equipment (installed on or after November 23, 1968):

$$E=1.026 * H^{-0.233}$$

Where H is the heat input capacity in MMBtu per hour and E is the maximum allowable particulate emissions rate in pounds per MMBtu.

- A.7. Pursuant to ARM 17.8.310 unless otherwise specified by rule or in this permit, NorthWestern shall not cause or authorize particulate matter to be discharged, from any operation, process or activity, into the outdoor atmosphere in excess of the maximum hourly allowable emissions of particulate matter calculated using the following equations:

For process weight rates up to 30 tons per hour:  $E=4.10 * P^{0.67}$

For process weight rates in excess of 30 tons per hour:  $E=55.0 * P^{0.11} - 40$

Where E= rate of emissions in pounds per hour and P = process weight rate in tons per hour.

- A.8. Pursuant to ARM 17.8.322(4), NorthWestern shall not burn liquid or solid fuels containing sulfur in excess of 1 pound per million Btu fired unless otherwise specified by rule or in this permit.
- A.9. Pursuant to ARM 17.8.322(5), NorthWestern shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions unless otherwise specified by rule or in this permit.
- A.10. Pursuant to ARM 17.8.316, NorthWestern shall use no incinerator for the burning of refuse unless such incinerator is a multiple chamber incinerator or one of other design of equal effectiveness approved by the Department prior to installation or use unless otherwise specified by rule or in this permit.
- A.11. Pursuant to ARM 17.8.316, NorthWestern shall not cause or authorize to be discharged into the outdoor atmosphere from any incinerator, particulate matter in excess of 0.10 grains per standard cubic foot of dry flue gas, adjusted to 12% carbon dioxide and calculated as if no auxiliary fuel had been used unless otherwise specified by rule or in this permit.
- A.12. Pursuant to ARM 17.8.316, NorthWestern shall not cause or authorize to be discharged into the outdoor atmosphere from any incinerator emissions, which exhibit an opacity of 10% or greater averaged over 6 consecutive minutes unless otherwise specified by rule or in this permit.



## Reporting

- A.13. On or before January 31 and July 31 of each year, NorthWestern shall submit to the Department the compliance monitoring reports required by Section V.D. These reports must contain all information required by Section V.D, as well as the information required by each individual emissions unit. For the reports due by January 31 of each year, NorthWestern may submit a single report, provided that it contains all the information required by Section V.B & V.D. Per ARM 17.8.1207,

*any application form, report, or compliance certification submitted pursuant to ARM Title 17, Chapter 8, Subchapter 12 (including semiannual monitoring reports), shall contain certification by a responsible official of truth, accuracy and completeness. This certification and any other certification required under ARM Title 17, Chapter 8, Subchapter 12, shall state that, “based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.”*

- A.14. By January 31 of each year, NorthWestern shall submit to the Department the compliance certification report required by Section V.B. The annual certification report required by Section V.B must include a statement of compliance based on the information available, which identifies any observed, documented or otherwise known instance of noncompliance for each applicable requirement. Per ARM 17.8.1207,

*any application form, report, or compliance certification submitted pursuant to ARM Title 17, Chapter 8, Subchapter 12 (including annual certifications), shall contain certification by a responsible official of truth, accuracy and completeness. This certification and any other certification required under ARM Title 17, Chapter 8, Subchapter 12, shall state that, “based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.”*

## B. Compressor Engines

**EU1 and EU2: (2) 300 hp Ingersoll Rand XVG Compressor Engines, and  
EU3: (1) Clark RA-8 800 hp Compressor Engine**

Permit Condition	Pollutant/ Parameter	Permit Limitation	Compliance Demonstration		Reporting
			Method	Frequency	
B.1, B.4, B.5, B.6	Opacity	40%	Pipeline quality Natural gas	Ongoing	Semi-Annual
B.2, B.4, B.5, B.6	Particulate from fuel combustion	$E=0.882*H^{-0.1664}$			
B.3, B.4, B.5, B.6	Sulfur compounds in fuel (gaseous)	<u>50 grains</u> 100 SCF			

## Conditions

- B.1. NorthWestern shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 40% or greater averaged over six consecutive minutes (ARM 17.8.304(1)).

- B.2. NorthWestern shall not cause or authorize particulate matter caused by the combustion of fuel to be discharged from any stack or chimney into the outdoor atmosphere in excess of the rate calculated by:  $E = 0.882 * H^{-0.1664}$  for existing fuel burning equipment, where: H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).
- B.3. NorthWestern shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 standard cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).

### Compliance Demonstration

- B.4. Monitoring compliance of the opacity, particulate from fuel combustion, and sulfur compounds in fuel requirements may be satisfied by burning pipeline quality natural gas.

### Recordkeeping

- B.5. Recordkeeping is not required for Sections III.B.1, III.B.2, or III.B.3.

### Reporting

- B.6. The annual compliance report required by Section V.B must contain a certification statement for the above applicable requirements. The semiannual compliance monitoring reports shall verify whether pipeline quality natural gas was used as required by Section III.B.4.

## C. Compressor Engines

### EU4 and EU5: (2) 600 hp Ajax DPC-600 Compressor Engines

Permit Condition	Pollutant/Parameter	Permit Limitation	Compliance Demonstration		Reporting
			Method	Frequency	
C.1, C.7, C.10, C.11	Opacity	20%	Pipeline quality natural gas	Ongoing	Semi-annual
C.2, C.7, C.10, C.11	Particulate from fuel combustion	$E = 1.026 * H^{-0.233}$			
C.3, C.7, C.10, C.11	Sulfur compounds in fuel (gaseous)	<u>50 grains</u> 100 SCF			
C.4, C.8, C.9, C.11	NO <sub>x</sub>	20.5 lb/hr	Portable analyzer	Semi-annual	
C.5, C.8, C.9, C.11	CO	1.46 lb/hr	Portable analyzer	Semi-annual	
C.6, C.7, C.10, C.11	VOC	0.66 lb/hr	Pipeline quality natural gas	Ongoing	

### Conditions

- C.1. NorthWestern shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over six consecutive minutes (ARM 17.8.304(2)).
- C.2. NorthWestern shall not cause or authorize particulate matter caused by the combustion of fuel to be discharged from any stack or chimney into the outdoor atmosphere in excess of the rate calculated by:  $E = 1.026 * H^{-0.233}$  for new fuel burning equipment, where: H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).

- C.3. NorthWestern shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 standard cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).
- C.4. NO<sub>x</sub> emissions from each compressor engine shall not exceed 20.5 lb/hr (ARM 17.8.752).
- C.5. CO emissions from each compressor engine shall not exceed 1.46 lb/hr (ARM 17.8.752).
- C.6. VOC emissions from each compressor engine shall not exceed 0.66 lb/hr (ARM 17.8.752).

### **Compliance Demonstration**

- C.7. Monitoring compliance with the opacity, particulate from fuel combustion, sulfur compounds in fuel requirements, and the VOC requirement may be satisfied by burning pipeline quality natural gas.
- C.8. Semi-annually or whenever changes occur that may cause the emissions to exceed permitted levels, NorthWestern shall conduct an emissions test with a portable analyzer in order to monitor the NO<sub>x</sub> and CO emissions from each compressor engines. The portable analyzer shall be capable of achieving performance specifications equivalent to EPA traditional methods defined in 40 CFR 60, Appendix A or shall be capable of meeting the requirements of EPA Conditional Test Method 022 for the "Determination of Nitric Oxide, Nitrogen Dioxide, and NO<sub>x</sub> Emissions from Stationary Combustion Sources by Electrochemical Analyzer". NorthWestern may use another testing procedure as approved in advance by the Department. All tests must be conducted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). NorthWestern shall monitor compliance with the NO<sub>x</sub> and CO limitations in Sections III.C.4 and III.C.5, respectively, by converting the emissions test results (ppm) to a mass emissions rate (lb/hr). Stack gas flow rates shall be determined using EPA Test Methods in 40 CFR 60, Appendix A.

### **Recordkeeping**

- C.9. During each emissions test with the portable analyzer NorthWestern shall record, at a minimum, the following information for the engine, the compressor, and the portable analyzer:
- a. Facility name and location;
  - b. Test date;
  - c. Name, company, and signature of technician(s) performing the test;
  - d. Emissions unit number;
  - e. Engine model and serial number;
  - f. Rated horsepower;
  - g. Fuel consumption rate (metered or estimated);
  - h. Engine operating parameters;
  - i. Compressor make, model and serial number;
  - j. Suction pressure and temperature;
  - k. Discharge pressure and temperature;
  - l. Portable analyzer make, model and serial number;
  - m. Calibration procedure and data;
  - n. Test procedure and data;
  - o. Original test strip-chart and/or original data print out; and
  - p. EPA Test Method calculations.
- C.10. Recordkeeping is not required for Sections III.C.1, III.C.2, III.C.3 and III.C.6.

## Reporting

- C.11. The annual compliance report required by Section V.B must contain a certification statement for the above applicable requirements. The semiannual compliance monitoring reports shall provide:
- Verification that only pipeline quality natural gas was used on a continuous basis as required by Section III.C.7; and
  - A summary of the emissions test data and emission calculations as required by Sections III.C.8 and III.C.9 for each engine.

## D. Compressor Engine

### EU6: (1) 160 hp Ajax DPC-160 Compressor Engine

Permit Condition	Pollutant/ Parameter	Permit Limitation	Compliance Demonstration		Reporting
			Method	Frequency	
D.1, D.7, D.10, D.11	Particulate from fuel combustion	E=1.026* H <sup>-0.233</sup>	Pipeline quality natural gas	Ongoing	Semi-annual
D.2, D.7, D.10, D.11	Opacity	20%			
D.3, D.7, D.10, D.11	Sulfur compounds in fuel (gaseous)	<u>50 grains</u> 100 SCF			
D.4, D.8, D.9, D.11	NO <sub>x</sub>	3.88 lb/hr	Portable analyzer	Semi-annual	
D.5, D.8, D.9, D.11	CO	3.88 lb/hr			
D.6, D.7, D.10, D.11	VOC	0.28 lb/hr	Pipeline quality natural gas	Ongoing	

## Conditions

- D.1. NorthWestern shall not cause or authorize particulate matter caused by the combustion of fuel to be discharged from any stack or chimney into the outdoor atmosphere in excess of the rate calculated by:  $E = 1.026 \cdot H^{0.233}$  for new fuel burning equipment, where: H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).
- D.2. NorthWestern shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- D.3. NorthWestern shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 standard cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).
- D.4. NO<sub>x</sub> emissions from each compressor engine shall not exceed 3.88 lb/hr (ARM 17.8.752).
- D.5. CO emissions from each compressor engine shall not exceed 3.88 lb/hr (ARM 17.8.752).
- D.6. VOC emissions from each compressor engine shall not exceed 0.28 lb/hr (ARM 17.8.752).

## Compliance Demonstration

- D.7. Monitoring compliance with the opacity, particulate from fuel combustion, sulfur compounds in fuel requirements, and the VOC requirement may be satisfied by burning pipeline quality natural gas.
- D.8. Semi-annually or whenever changes occur that may cause the emissions to exceed permitted levels, NorthWestern shall conduct an emissions test with a portable analyzer in order to determine the NO<sub>x</sub> and CO emissions from each compressor engines. The portable analyzer shall be capable of achieving performance specifications equivalent to EPA traditional methods defined in 40 CFR 60, Appendix A or shall be capable of meeting the requirements of EPA Conditional Test Method 022 for the "Determination of Nitric Oxide, Nitrogen Dioxide, and NO<sub>x</sub> Emissions from Stationary Combustion Sources by Electrochemical Analyzer". NorthWestern may use another testing procedure as approved in advance by the Department. All tests must be conducted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). NorthWestern shall monitor compliance with the NO<sub>x</sub> and CO limitations in Sections III.D.4 and III.D.5, respectively, by converting the emissions test results (ppm) to a mass emissions rate (lb/hr). Stack gas flow rates shall be determined using EPA Test Methods in 40 CFR 60, Appendix A.

## Recordkeeping

- D.9. During each emissions test with the portable analyzer NorthWestern shall record, at a minimum, the following information for the engine, the compressor, and the portable analyzer:
- a. Facility name and location;
  - b. Test date;
  - c. Name, company, and signature of technician(s) performing the test;
  - d. Emissions unit number;
  - e. Engine model and serial number;
  - f. Rated horsepower;
  - g. Fuel consumption rate (metered or estimated);
  - h. Engine operating parameters;
  - i. Compressor make, model, and serial number;
  - j. Suction pressure and temperature;
  - k. Discharge pressure and temperature;
  - l. Portable analyzer make, model, and serial number;
  - m. Calibration procedure and data;
  - n. Test procedure and data;
  - o. Original test strip-chart and/or original data print out; and
  - p. EPA Test Method calculations.
- D.10. Recordkeeping is not required for Sections III.D.1, III.D.2, III.D.3 and III.D.6.

## Reporting

- D.11 The annual compliance report required by Section V.B must contain a certification statement for the above applicable requirements. The semiannual compliance monitoring reports shall provide:
- a. Verification that only pipeline quality natural gas was used on a continuous basis as required by Section III.D.7; and

- b. A summary of the emissions test data and emission calculations as required by Sections III.D.8 and III.D.9.

## E. Reboilers

**EU7: (<4MMBtu) Natural Gas Building Heaters,  
EU8: 400 MBtu/hr Olman Heath Reboiler, and  
EU11: 750 Mbtu/hr heating boiler**

Permit Condition	Pollutant/Parameter	Permit Limitation	Compliance Demonstration		Reporting
			Method	Frequency	
E.1, E.4, E.5, E.6	Opacity	20%	Pipeline quality Natural gas	Ongoing	Semi-annual
E.2, E.4, E.5, E.6	Particulate from fuel combustion	$E = 1.026 * H^{-0.233}$			
E.3, E.4, E.5, E.6	Sulfur compounds in fuel (gaseous)	<u>50 grains</u> 100 SCF			

### Conditions

- E.1. NorthWestern shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over six consecutive minutes (ARM 17.8.304(2)).
- E.2. NorthWestern shall not cause or authorize particulate matter caused by the combustion of fuel to be discharged from any stack or chimney into the outdoor atmosphere in excess of rate calculated by:  $E = 1.026 * H^{-0.233}$  for new fuel burning equipment, where: H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).
- E.3. NorthWestern shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 standard cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).

### Compliance Demonstration

- E.4. Monitoring compliance with the opacity, particulate from fuel combustion, and sulfur compounds in fuel requirements may be satisfied by burning pipeline quality natural gas.

### Recordkeeping

- E.5. Recordkeeping is not required for Sections III.E.1, III.E.2, and III.E.3.

### Reporting

- E.6. The annual compliance report required by Section V.B must contain a certification statement for the above applicable requirements. The semiannual compliance monitoring reports shall verify that only pipeline quality natural gas was used on a continuous basis as required by Section III.E.4.

## F. Turbine Compressors

**EU9 and EU10: Solar Saturn 1100 hp Turbine Compressors**

Permit Condition	Pollutant/ Parameter	Permit Limitation	Compliance Demonstration		Reporting
			Method	Frequency	
F.1, F.8, F.11, F.12	Particulate from fuel combustion	E=1.026* H <sup>-0.233</sup>	Pipeline quality natural gas	Ongoing	Semi-annual
F.2, F.8, F.11, F.12	Opacity	20%			
F.3, F.8, F.11, F.12	Sulfur compounds in fuel (gaseous)	<u>50 grains</u> 100 SCF			
F.4, F.9, F.10, F.12	NO <sub>x</sub>	7.11 lb/hr	Portable analyzer	Semi-annual	
F.5, F.9, F.11, F.12	CO	11.57 lb/hr			
F.6, F.8, F.11, F.12	VOC	1.66 lb/hr	Pipeline quality natural gas	Ongoing	
F.7, F.10	Hours of Operation	Combined 10,400 hours per 12 month rolling period	Maintain a log		

### Conditions

- F.1. NorthWestern shall not cause or authorize particulate matter caused by the combustion of fuel to be discharged from any stack or chimney into the outdoor atmosphere in excess of the rate calculated by:  $E = 1.026 * H^{-0.233}$  for new fuel burning equipment, where: H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).
- F.2. NorthWestern shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- F.3. NorthWestern shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 standard cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).
- F.4. NO<sub>x</sub> emissions from each compressor turbine shall not exceed 7.11 lb/hr (ARM 17.8.752).
- F.5. CO emissions from each compressor turbine shall not exceed 11.57 lb/hr (ARM 17.8.752).
- F.6. VOC emissions from each compressor turbine shall not exceed 1.66 lb/hr (ARM 17.8.752).
- F.7. The total combined hours of operation of the two 1100 hp Solar Saturn compressor turbines shall be limited to 10,400 hours during any rolling 12-month period (ARM 17.8.749).

### Compliance Demonstration

- F.8. Monitoring compliance with the opacity, particulate from fuel combustion, sulfur compounds in fuel requirements, and the VOC requirement may be satisfied by burning pipeline quality natural gas.
- F.9. Semi-annually or whenever changes occur that may cause the emissions to exceed permitted levels, NorthWestern shall conduct an emissions test with a portable analyzer in order to determine the NO<sub>x</sub> and CO emissions from each compressor engines. The portable analyzer shall be capable of achieving performance specifications equivalent to EPA traditional methods defined in 40 CFR 60, Appendix A or shall be capable of meeting the requirements of EPA Conditional Test Method 022 for the "Determination of Nitric Oxide,

Nitrogen Dioxide, and NO<sub>x</sub> Emissions from Stationary Combustion Sources by Electrochemical Analyzer". NorthWestern may use another testing procedure as approved in advance by the Department. All tests must be conducted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). NorthWestern shall monitor compliance with the NO<sub>x</sub> and CO limitations in Sections III.D.4 and III.D.5, respectively, by converting the emissions test results (ppm) to a mass emissions rate (lb/hr). Stack gas flow rates shall be determined using EPA Test Methods in 40 CFR 60, Appendix A.

- F.10 NorthWestern shall maintain a log of hours of operation for the Telstad Field Station. By the 25<sup>th</sup> day of each month, NorthWestern shall total the combined hours of operation for the two 1100 hp Solar Saturn compressor turbines during the previous 12 months to verify compliance with the limitation of 10,400 hours. A written report for the previous calendar year shall be submitted no later than March 1 and may be submitted along with the annual inventory (ARM 17.8.749).

### **Recordkeeping**

- F.11 During each emissions test with the portable analyzer NorthWestern shall record, at a minimum, the following information for the engine, the compressor, and the portable analyzer:
- a. Facility name and location;
  - b. Test date;
  - c. Name, company, and signature of technician(s) performing the test;
  - d. Emissions unit number;
  - e. Engine model and serial number;
  - f. Rated horsepower;
  - g. Fuel consumption rate (metered or estimated);
  - h. Engine operating parameters;
  - i. Compressor make, model, and serial number;
  - j. Suction pressure and temperature;
  - k. Discharge pressure and temperature;
  - l. Portable analyzer make, model, and serial number;
  - m. Calibration procedure and data;
  - n. Test procedure and data;
  - o. Original test strip-chart and/or original data print out; and
  - p. EPA Test Method calculations.
- F.12. Recordkeeping is not required for Sections III.F.1, III.F.2, III.F.3 and III.F.6.
- F.13. The log must contain the combined hours of operation for the two 1100 hp Solar Saturn compressor turbines during the previous 12 months.

### **Reporting**

- F.14 The annual compliance report required by Section V.B must contain a certification statement for the above applicable requirements. The semiannual compliance monitoring reports shall provide:
- a. Verification that only pipeline quality natural gas was used on a continuous basis as required by Section III.F.8;
  - b. A summary of the emissions test data and emission calculations as required by Sections III.F.9 and III.F.10; and
  - c. A Summary of the log required by III.F.13.



## G. Emergency Generator

### EU13: (2) Natural Gas Waukesha Backup Generators

Permit Condition	Pollutant/ Parameter	Permit Limitation	Compliance Demonstration		Reporting
			Method	Frequency	
G.1, G.4, G.5, G.6	Opacity	20%	Pipeline quality natural gas	Ongoing	Semi- annual
G.2, G.4, G.5, G.6	Particulate from fuel combustion	$E=1.026 * H^{-0.233}$			
G.3, G.4, G.5, G.6	Sulfur compounds in fuel (gaseous)	<u>50 grains</u> 100 SCF			

#### Conditions

- G.1. NorthWestern shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- G.2. NorthWestern shall not cause or authorize particulate matter caused by the combustion of fuel to be discharged from any stack or chimney into the outdoor atmosphere in excess of rate calculated by:  $E = 1.026 * H^{-0.233}$  for existing fuel burning equipment, where: H = heat input capacity in MMBtu/hr and E = maximum allowable emission rate in lb/MMBtu (ARM 17.8.309).
- G.3. NorthWestern shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 standard cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).

#### Compliance Demonstration

- G.4. Monitoring compliance with Sections III.G.1, III.G.2, and III.G.3 may be satisfied by burning pipeline quality natural gas.

#### Recordkeeping

- G.5. Recordkeeping is not required to monitor compliance with Sections III.G.1, III.G.2, and III.G.3.

#### Reporting

- G.6. The annual compliance report required by Section V.B must contain a certification statement for the above applicable requirements. The semiannual compliance monitoring reports shall verify that only pipeline quality natural gas was used on a continuous basis as required by Section III.G.4.

## H. Fugitive Emissions-Road Dust

### EU14: Fugitive emissions from road dust

Permit	Pollutant/	Permit	Compliance Demonstration	Reporting
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			Compliance Demonstration		
				Frequency	
H.1, H.2, H.3, H.4, H.5	Opacity	20%	Reasonable precautions	As necessary	Semi- annual

### Conditions

- H.1. NorthWestern shall not cause or authorize the production, handling, transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter are taken. Such emissions of airborne particulate from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.308 (1)).
- H.2. NorthWestern shall not cause or authorize the use of any access roads, parking lots, or the general plant area without taking reasonable precautions to control emissions of airborne particulate matter (ARM 17.8.308(2)).

### Compliance Demonstration

- H.3. NorthWestern shall treat all unpaved portions of the access roads, parking lots, and general plant area with fresh water and/or chemical dust suppressant as necessary to maintain compliance with the reasonable precautions limitation (ARM 17.8.749).

### Recordkeeping

- H.4. NorthWestern shall log any corrective action taken. The log must include what was applied, a description of the area of application and the amount of application (gallons). The log must be kept on site and submitted to the Department upon request.

### Reporting

- H.5. The annual compliance report required by Section V.B must contain a certification statement for the above applicable requirements. The semiannual compliance monitoring reports shall provide a summary of any corrective actions necessary.

## SECTION IV - NONAPPLICABLE REQUIREMENTS

Air Quality Administrative Rules of Montana (ARM) and Federal Regulations identified as not applicable to the facility or to a specific emissions unit at the time of the permit issuance are listed below (ARM 17.8.1214). The following list does not preclude the need to comply with any new requirement that may become applicable during the permit term.

### A. Facility Wide

Rule Citation		Reason
State	Federal	
ARM 17.8.321 ARM 17.8.323 ARM 17.8.331 ARM 17.8.332 ARM 17.8.333 ARM 17.8.334 ARM 17.8.610		These rules are not applicable because the facility is not listed in the source category cited in the rules.
ARM 17.8.320		This rule is not applicable because the facility does not have the specific emissions unit cited in the rules.
ARM 17.8.818 ARM 17.8.819 ARM 17.8.820 ARM 17.8.821 ARM 17.8.822 ARM 17.8.823 ARM 17.8.824 ARM 17.8.827 ARM 17.8.828 ARM 17.8.1106 ARM 17.8.1107 ARM 17.8.1110 ARM 17.8.1111		These rules are not applicable because the facility has not made any changes that would trigger these procedural rule requirements.
	40 CFR 60.13 40 CFR 60, Subparts C, Ca, Cb 40 CFR 60, Subparts D, Da, Db, Dc 40 CFR 60, Subparts E-J 40 CFR 60, Subparts K, Ka, Kb 40 CFR 60, Subparts L-Z 40 CFR 60, Subparts AA-EE 40 CFR 60, Subparts GG-HH 40 CFR 60, Subparts KK-NN 40 CFR 60, Subparts PP-XX 40 CFR 60, Subparts AAA-BBB 40 CFR 60, Subparts DDD 40 CFR 60, Subparts FFF-LLL 40 CFR 60, Subparts NNN-VVV 40 CFR 61, Subparts B-F 40 CFR 61, Subparts H-L 40 CFR 61, Subparts N-R 40 CFR 61, Subparts V-W 40 CFR 61, Subpart Y 40 CFR 61, Subpart BB 40 CFR 61, Subpart FF 40 CFR 63, Subpart B	These requirements are not applicable because the facility is not an affected source as defined in these regulations.

Rule Citation		Reason
State	Federal	
	40 CFR 63, Subparts F-I 40 CFR 63, Subparts L-M 40 CFR 63, Subpart Q 40 CFR 63, Subpart R 40 CFR 63, Subpart T 40 CFR 63, Subpart W 40 CFR 63, Subpart X 40 CFR 63, Subpart Y 40 CFR 63, Subpart CC 40 CFR 63, Subpart EE 40 CFR 63, Subpart GG 40 CFR 63, Subpart II-JJ 40 CFR 82, Subparts A-E 40 CFR 82, Subparts G-H	
	40 CFR 72 through 40 CFR 78.	These requirements are not applicable because the facility is not an affected source as defined by the acid rain regulations.

## **B. Emission Units**

NorthWestern did not request a shield for specific emission units; therefore, a permit shield will not be granted to individual emission units.

## SECTION V - GENERAL PERMIT CONDITIONS

### A. COMPLIANCE REQUIREMENTS

ARM 17.8 Subchapter 12 Operating Permit Program §1210 (2)(a)-(c)&(e), §1206(6)(d) and §1206(6)(b)

1. NorthWestern must comply with all conditions of the permit. Any noncompliance with the terms or conditions of the permit constitutes a violation of the Montana Clean Air Act, and may result in enforcement action, permit modification, revocation and reissuance, or termination, or denial of a permit renewal application under ARM Title 17, Chapter 8, Subchapter 12.
2. The filing of a request by NorthWestern for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
3. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. If appropriate, this factor may be considered as a mitigating factor in assessing a penalty for noncompliance with an applicable requirement if the source demonstrates both that the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continuing operations, and that such health, safety, or environmental impacts were unforeseeable and could not have otherwise been avoided.
4. NorthWestern shall furnish to the Department, within a reasonable time set by the Department (not to be less than 15 days), any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to monitor compliance with the permit. Upon request, NorthWestern shall also furnish to the Department copies of those records that are required to be kept pursuant to the terms of the permit. This subsection does not impair or otherwise limit the right of NorthWestern to assert the confidentiality of the information requested by the Department, as provided in 75-2-105, MCA.
5. Any schedule of compliance for applicable requirements with which the source is not in compliance at the time of permit issuance shall be supplemental to, and shall not sanction noncompliance with the applicable requirements on which it is based.
6. For applicable requirements that will become effective during the permit term, the source shall meet such requirements on a timely basis unless a more detailed plan or schedule is required by the applicable requirement or the Department.

### B. CERTIFICATION REQUIREMENTS

ARM 17.8 Subchapter 12 Operating Permit Program §1207, and §1213 (7)(a)&(c)-(d)

1. Any application form, report, or compliance certification submitted pursuant to ARM Title 17, Chapter 8, Subchapter 12 shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under ARM Title 17, Chapter 8, Subchapter 12 shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

2. Compliance certifications shall be submitted by January 31 of each year, or more frequently if otherwise specified in an applicable requirement or elsewhere in the permit. Each certification must include the required information for the previous calendar year (i.e., January 1 - December 31).
3. Compliance certifications shall include the following:
  - a. The identification of each term or condition of the permit that is the basis of the certification;
  - b. The identification of the method(s) or other means used by the owner or operator for determining the status of compliance with each term and condition during the certification period, consistent with ARM 17.8.1212;
  - c. The status of compliance with the terms and conditions of the permit for the period covered by the certification, *including whether compliance during the period was continuous or intermittent* (based on the method or means designated in ARM 17.8.1213(7)(c)(ii) as described above); and
  - d. Such other facts as the Department may require to determine the compliance status of the source.
4. All compliance certifications must be submitted to the Environmental Protection Agency, Region VIII, Office of Enforcement, Compliance and Environmental Justice, as well as to the Department, at the addresses listed in the Notification Addresses Appendix of this permit.

**C. PERMIT SHIELD**

ARM 17.8 Subchapter 12 Operating Permit Program §1214 (1)-(4)

1. The applicable requirements and non-federally enforceable requirements are included and specifically identified in this permit and the permit includes a concise summary of the requirements not applicable to the source. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements and any non-federally enforceable requirements as of the date of permit issuance.
2. The permit shield described in 1 above shall remain in effect during the appeal of any permit action (renewal, revision, reopening, revocation or reissuance) to the Board of Environmental Review (Board) until such time as the board renders its final decision.
3. Nothing in this permit alters or affects the following:
  - a. The provisions of Section 7603 of the FCAA, including the authority of the administrator under that section;
  - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
  - c. The applicable requirements of the acid rain program, consistent with Section 7651g (a) of the FCAA;
  - d. The ability of the administrator to obtain information from a source pursuant to Section 7414 of the FCAA;

- e. The ability of the Department to obtain information from a source pursuant to the Montana Clean Air Act, Title 75, chapter 2, MCA;
  - f. The emergency powers of the Department under the Montana Clean Air Act, Title 75, chapter 2, MCA; and
  - g. The ability of the Department to establish or revise requirements for the use of Reasonably Available Control Technology (RACT) as defined in ARM Title 17, Chapter 8. However, if the inclusion of a RACT into the permit pursuant to ARM Title 17, Chapter 8, Subchapter 12 is appealed to the board, the permit shield as it applies to the source's existing permit shall remain in effect until such time as the board has rendered its final decision.
4. Nothing in this permit alters or affects the ability of the Department to take enforcement action for a violation of an applicable requirement or permit term demonstrated pursuant to ARM 17.8.106, Source Test Protocol.
  5. Determinations of compliance, or noncompliance, are not restricted to the monitoring requirements listed in this permit; other available information may be used as allowed by Section 113(a) of the FCAA.
  6. The permit shield will not extend to minor permit modifications or changes not requiring a permit revision (see Sections I & J).
  7. The permit shield will extend to significant permit modifications and transfer or assignment of ownership (see Sections K & N).

**D. MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS**

ARM 17.8 Subchapter 12 Operating Permit Program §1212 (2)&(3)

1. Unless otherwise provided in this permit, NorthWestern shall maintain compliance monitoring records that include the following information:
  - a. The date, place as defined in the permit, and time of sampling or measurements;
  - b. The date(s) analyses were performed;
  - c. The company or entity that performed the analyses;
  - d. The analytical techniques or methods used;
  - e. The results of such analyses; and
  - f. The operating conditions at the time of sampling or measurement.
2. NorthWestern shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. All monitoring data, support information, and required reports and summaries may be maintained in a computerized form at the plant site if the information is made available to department personnel upon request, which may be for either hard copies or computerized format. Strip-charts must be retained in their original form at the plant site and shall be made available to Department personnel upon request.

3. NorthWestern shall submit to the Department, at the addresses located in the Notification Addresses Appendix of this permit, reports of any required monitoring by January 31 and July 31 of each year, or more frequently if otherwise specified in an applicable requirement or elsewhere in the permit. The monitoring report submitted, on January 31 of each year, must include the required monitoring information for the period of July 1 through December 31 of the previous year. The monitoring report submitted on July 31 of each year must include the required monitoring information for the period of January 1 through June 30 of the current year. All instances of deviations from the permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official, consistent with ARM 17.8.1207.

**E. PROMPT DEVIATION REPORTING**

ARM 17.8 Subchapter 12 Operating Permit Program §1212 (3)(c)

NorthWestern shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. To be considered prompt, deviations shall be reported as part of the routine reporting requirements under ARM 17.8.1212(3)(b), and if applicable, in accordance with the malfunction reporting requirements under ARM 17.8.110, unless otherwise specified in an applicable requirement.

**F. EMERGENCY PROVISIONS**

ARM 17.8 Subchapter 12 Operating Permit Program §1201(13) and §1214 (5),(6)&(8)

1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of reasonable preventative maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if NorthWestern demonstrates through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - a. An emergency occurred and that NorthWestern can identify the cause(s) of the emergency;
  - b. The permitted facility was at the time being properly operated;
  - c. During the period of the emergency NorthWestern took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in this permit; and
  - d. NorthWestern submitted notice of the emergency to the Department within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice fulfills the requirements of ARM 17.8.1212(3)(c). This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
3. These emergency provisions are in addition to any emergency, malfunction or upset provision contained in any applicable requirement.



## **G. INSPECTION AND ENTRY**

### ARM 17.8 Subchapter 12 Operating Permit Program §1213(3)&(4)

1. Upon presentation of credentials and other documents as may be required by law, NorthWestern shall allow the Department, the administrator or an authorized representative (including an authorized contractor acting as a representative of the Department or the administrator) to perform the following:
  - a. Enter the premises where a source required to obtain a permit is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
  - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
  - c. Inspect at reasonable times any facilities, emission unit, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - d. As authorized by the Montana Clean Air Act and rules promulgated thereunder, sample or monitor at reasonable times any substances or parameters at any location for the purpose of assuring compliance with the permit or applicable requirements.
2. NorthWestern shall inform the inspector of all applicable workplace safety rules or requirements at the time of the inspection. This section shall not limit in any manner the Department's statutory right of entry and inspection as provided for in 75-2-403, MCA.

## **H. FEE PAYMENT**

### ARM 17.8 Subchapter 12 Operating Permit Program §1210(2)(f), 17.8 Subchapter 5 Air Quality Permit Application, Operation and Open Burning Fees §505 (3)-(5) (STATE ONLY)

1. NorthWestern must pay application and operating fees, pursuant to ARM Title 17, Chapter 8, Subchapter 5.
2. Annually, the Department shall provide NorthWestern with written notice of the amount of the fee and the basis for the fee assessment. The air quality operation fee is due 30 days after receipt of the notice, unless the fee assessment is appealed pursuant to ARM 17.8.511. If any portion of the fee is not appealed, that portion of the fee that is not appealed is due 30 days after receipt of the notice. Any remaining fee, which may be due after completion of an appeal, is due immediately upon issuance of the Board's decision or upon completion of any judicial review of the Board's decision.
3. If NorthWestern fails to pay the required fee (or any required portion of an appealed fee) within 90 days after the due date of the fee, the Department may impose additional assessment of 15% of the fee (or any required portion of an appealed fee) or \$100, whichever is greater, plus interest on the fee (or any required portion of an appealed fee) computed at the interest rate established under 15-31-510(3), MCA.

## **I. MINOR PERMIT MODIFICATIONS**

### ARM 17.8 Subchapter 12 Operating Permit Program §1226(3)&(11)

1. An application for a minor permit modification need only address in detail those portions of the permit application that require revision, updating, supplementation, or deletion, and may reference any required information that has been previously submitted.

2. The permit shield under ARM 17.8.1214 will not extend to any minor modifications processed pursuant to ARM 17.8.1226.

**J. CHANGES NOT REQUIRING PERMIT REVISION**

ARM 17.8 Subchapter 12 Operating Permit Program §1224 (1)-(3),(5)&(6)

1. NorthWestern is authorized to make changes within the facility as described below, providing the following conditions are met:
  - a. The proposed changes do not require NorthWestern to obtain an air quality preconstruction permit under ARM Title 17, Chapter 8, Subchapter 7;
  - b. The proposed changes are not modifications under Title I of the FCAA, or as defined in ARM Title 17, Chapter 8, Subchapters 8, 9 or 10;
  - c. The emissions resulting from the proposed changes do not exceed the emissions allowable under the permit, whether expressed as a rate of emissions, or in total emissions;
  - d. The proposed changes do not alter permit terms that are necessary to enforce applicable emission limitations on emissions units covered by the permit; and
  - e. The facility provides the administrator and the Department with written notification at least 7 days prior to making the proposed changes.
2. NorthWestern and the Department shall attach each notice provided pursuant to 1.e, above, to their respective copies of this permit.
3. Pursuant to the conditions above, NorthWestern is authorized to make Section 502(b)(10) changes, as defined in ARM Title 17, Chapter 8, Subchapter 12, without a permit revision. For each such change, the written notification required under 1.e above, shall include a description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.
4. NorthWestern may make a change not specifically addressed or prohibited by the permit terms and conditions without requiring a permit revision, provided that the following conditions are met:
  - a. Each proposed change does not weaken the enforceability of any existing permit conditions;
  - b. The Department has not objected to such change;
  - c. Each proposed change meets all applicable requirements and does not violate any existing permit term or condition; and
  - d. NorthWestern provides contemporaneous written notice to the Department and the administrator of each change that is above the level for insignificant emission units as defined in ARM 17.8.1201(22) and 17.8.1206(3), and the written notice describes each such change, including the date of the change, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.

5. The permit shield authorized by ARM 17.8.1214 shall not apply to changes made pursuant to ARM 17.8.1224(3) and ARM 17.8.1224(5), but is applicable to terms and conditions that allow for increases and decreases in emissions pursuant to ARM 17.8.1224(4).

**K. SIGNIFICANT PERMIT MODIFICATIONS**

ARM 17.8 Subchapter 12 Operating Permit Program §1227(1),(3)&(4)

1. The modification procedures set forth in 2 below must be used for any application requesting a significant modification of this permit. Significant modifications include the following:
  - a. Any permit modification that does not qualify as either a minor modification or as an administrative permit amendment;
  - b. Every significant change in existing permit monitoring terms or conditions;
  - c. Every relaxation of permit reporting or recordkeeping terms or conditions which limit the Department's ability to monitor compliance with any applicable rule, consistent with the requirements of the rule; or
  - d. Any other change determined by the Department to be significant.
2. Significant modifications shall meet all requirements of ARM Title 17, Chapter 8, including those for applications, public participation, and review by affected states and the administrator, as they apply to permit issuance and renewal, except that an application for a significant modification permit need only address in detail those portions of the permit application that require revision, updating, supplementation, or deletion.
3. The permit shield provided for in ARM 17.8.1214 shall extend to significant modifications.

**L. REOPENINGS FOR CAUSE**

ARM 17.8 Subchapter 12 Operating Permit Program §1228(1)&(2)

1. This permit may be reopened and revised under the following circumstances:
  - a. Additional applicable requirements under the FCAA become applicable to the facility when the permit has a remaining term of three or more years. Reopening and revision of the permit shall be completed not later than 18 months after promulgation of the applicable requirement. No reopening is required under ARM 17.8.1228(1)(a) if the effective date of the applicable requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to ARM 17.8.1220(12) or 17.8.1221(2);
  - b. Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit;
  - c. The Department or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; and
  - d. The administrator or the Department determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

**M. PERMIT EXPIRATION AND RENEWAL**

ARM 17.8 Subchapter 12 Operating Permit Program §1210(2)(g), §1220(11)&(12), §1205(2)(d)

1. This permit is issued for a fixed term of five years.
2. Renewal of this permit is subject to the same procedural requirements that apply to permit issuance, including those for applications, content, public participation, and affected state and administrator review.
3. Expiration of this permit terminates NorthWestern's right to operate unless a timely and administratively complete permit renewal application has been submitted consistent with ARM 17.8.1221 and 17.8.1205(2)(d). If a timely and administratively complete application has been submitted all terms and conditions of the permit, including the application shield, remain in effect after the permit expires until the permit renewal has been issued or denied.
4. For renewal, NorthWestern shall submit a complete air quality operating permit application to the Department not later than six months prior to the expiration of this permit, unless otherwise specified. If necessary to ensure that the terms of the existing permit will not lapse before renewal, the Department may specify in writing to NorthWestern a longer time period for submission of the renewal application. Such written notification must be provided at least one year before the renewal application due date established in the existing permit.

**N. SEVERABILITY CLAUSE**

ARM 17.8 Subchapter 12 Operating Permit Program §1210(2)(i)&(l)

1. The administrative appeal or subsequent judicial review of the issuance by the Department of an initial permit under this subchapter shall not impair in any manner the underlying applicability of all applicable requirements, and such requirements continue to apply to the source as if a final permit decision had not been reached by the Department.
2. If any provision of a permit is found to be invalid, all valid parts that are severable from the invalid part remain in effect. If a provision of a permit is invalid in 1 or more of its applications, the provision remains in effect in all valid applications that are severable from the invalid applications.

**O. TRANSFER OR ASSIGNMENT OF OWNERSHIP**

ARM 17.8 Subchapter 12 Operating Permit Program §1225(2)&(4)

1. If an administrative permit amendment involves a change in ownership or operational control, the applicant must include in its request to the Department a written agreement containing a specific date for the transfer of permit responsibility, coverage, and liability between the current and new permittee.
2. The permit shield provided for in ARM 17.8.1214 shall extend to administrative permit amendments.

**P. EMISSIONS TRADING, MARKETABLE PERMITS, ECONOMIC INCENTIVES**

ARM 17.8 Subchapter 12 Operating Permit Program §1226(2)

Notwithstanding ARM 17.8.1226(1) and (7), minor air quality operating permit modification procedures may be used for permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, to the extent that such minor permit modification procedures are explicitly provided for in the Montana state implementation plan or in applicable requirements promulgated by the administrator.

**Q. NO PROPERTY RIGHTS CONVEYED**

ARM 17.8 Subchapter 12 Operating Permit Program §1210 (2)(d)

This permit does not convey any property rights of any sort, or any exclusive privilege.

**R. TESTING REQUIREMENTS**

ARM 17.8 Subchapter 1 General Provisions §105

NorthWestern shall comply with ARM 17.8.105.

**S. SOURCE TESTING PROTOCOL**

ARM 17.8 Subchapter 1 General Provisions §106

NorthWestern shall comply with ARM 17.8.106.

**T. MALFUNCTIONS**

ARM 17.8 Subchapter 1 General Provisions §110

NorthWestern shall comply with ARM 17.8.110.

**U. CIRCUMVENTION**

ARM 17.8 Subchapter 1 General Provisions §111

NorthWestern shall comply with ARM 17.8.111.

**V. MOTOR VEHICLES**

ARM 17.8 Subchapter 3 Emission Standards §325

NorthWestern shall comply with ARM 17.8.325.

**W. ANNUAL EMISSIONS INVENTORY**

ARM 17.8 Subchapter 5 Air Quality Permit Application, Operation and Open Burning Fees §505 (STATE ONLY)

NorthWestern shall supply the Department with annual production and other information for all emission units necessary to calculate actual or estimated actual amount of air pollutants emitted during each calendar year. Information shall be gathered on a calendar-year basis and submitted to the Department by the date required in the emission inventory request, unless otherwise specified in this permit. Information shall be in the units required by the Department.

**X. OPEN BURNING**

ARM 17.8 Subchapter 6 Open Burning §604, 605 and 606

NorthWestern shall comply with ARM 17.8.604, 605, and 606.

**Y. PRECONSTRUCTION PERMITS**

ARM 17.8 Subchapter 7 Permit, Construction and Operation of Air Contaminant Sources §17.8.743, 744, 745 and 764 (ARM 17.8 745(1) and 764(1)(b) are STATE ENFORCEABLE ONLY until approved by EPA as part of SIP)

1. Except as specified, no person shall construct, install, alter, or use any air contaminant source or stack associated with any source without first obtaining a permit from the Department or board. A permit is not required for those sources or stacks as specified by ARM 17.8.745 (1)(a)-(k).
2. NorthWestern shall comply with ARM 17.8.743, 744, 745, and 764.

3. ARM 17.8.745(1)(a) specifies de minimis changes as construction or changed conditions of operation at a facility holding an air quality preconstruction permit issued under Chapter 8 that does not increase the facility's potential to emit by more than 15 tons per year of any pollutant, except (STATE ENFORCEABLE ONLY until approved by the EPA as part of the SIP):
  - a. Any construction or changed condition that would violate any condition in the facility's existing air quality preconstruction permit or any applicable rule contained in Chapter 8 is prohibited, except as provided in ARM 17.8.745(2);
  - b. Any construction or changed conditions of operation that would qualify as a major modification under Subchapters 8, 9 or 10 of Chapter 8;
  - c. Any construction or changed condition of operation that would affect the plume rise or dispersion characteristic of emissions that would cause or contribute to a violation of an ambient air quality standard or ambient air increment as defined in ARM 17.8.804;
  - d. Any construction or improvement project with a potential to emit more than 15 tons per year may not be artificially split into smaller projects to avoid air quality preconstruction permitting; and
  - e. Emission reductions obtained through offsetting within a facility are not included when determining the potential emission increase from construction or changed conditions of operation, unless such reductions are made federally enforceable.
4. Any facility making a de minimis change pursuant to ARM 17.8.745(l) shall notify the Department if the change would include a change in control equipment, stack height, stack diameter, stack gas temperature, source location or fuel specifications, or would result in an increase in source capacity above its permitted operation or the addition of a new emission unit. The notice must be submitted, in writing, 10 days prior to start up or use of the proposed de minimis change, or as soon as reasonably practicable in the event of an unanticipated circumstance causing the de minimis change, and must include the information requested in ARM 17.8.745(l). (STATE ENFORCEABLE ONLY until approved by EPA as part of the SIP).

## **Z. NATIONAL EMISSION STANDARD FOR ASBESTOS**

### **40 CFR Part 61, Subpart M**

NorthWestern shall not conduct any asbestos abatement activities except in accordance with 40 CFR Part 61, Subpart M (National Emission Standard for Hazardous Air Pollutants for Asbestos).

## **AA. ASBESTOS**

### **ARM 17.74 Subchapter 3 General Provisions and Subchapter 4 Fees**

NorthWestern shall comply with ARM 17.74.301, *et seq.* and ARM 17.74.401, *et seq.* (State only)

## **BB. STRATOSPHERIC OZONE PROTECTION - SERVICING OF MOTOR VEHICLE AIR CONDITIONERS**

### **40 CFR Part 82, Subpart B**

If NorthWestern performs a service on motor vehicles and this service involves ozone-depleting substance/refrigerant in the motor vehicle air conditioner (MVAC), NorthWestern is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B.

**CC. STRATOSPHERIC OZONE PROTECTION - RECYCLING AND EMISSIONS  
REDUCTIONS**

**40 CFR Part 82, Subpart F**

NorthWestern shall comply with the standards for recycling and emissions reduction in 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B.

1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technical certification program pursuant to §82.161.
4. Persons disposing of small appliances, MVACs, and MVAC-like (as defined at §82.152) appliances must comply with recordkeeping requirements pursuant to §82.166.
5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.

**DD. EMERGENCY EPISODE PLAN**

NorthWestern shall comply with the requirements contained in Chapter 7, Chapter 8, and Chapter 16, Appendix B, of the State of Montana Air Quality Control Implementation Plan.

**EE. DEFINITIONS**

Terms not otherwise defined in this permit or in the Definitions and Abbreviations Appendix of this permit shall have the meaning assigned to them in the referenced regulations.

# APPENDICES



## APPENDIX A - INSIGNIFICANT EMISSION UNITS

**Disclaimer:** None of the information found in the Appendix shall be considered State or Federally enforceable; it is present to assist the facility, permitting authority, inspectors and citizens.

### List of Insignificant Activities

The following table of insignificant sources and/or activities was provided by NorthWestern to assist in the understanding of the facility layout. Currently, there are no requirements to update such a list so sources and/or activities may have changed since the last filing. The following table contains sources with emissions less than 5 tons per year, which are insignificant.

INSIGNIFICANT EMISSIONS
Process Valves



## APPENDIX B - DEFINITIONS and ABBREVIATIONS

"Act" means the Clean Air Act, as amended, 42 U.S. 7401, *et seq.*

"Administrative permit amendment" means an air quality operating permit revision that:

- (a) Corrects typographical errors;
- (b) Identifies a change in the name, address, or phone number of any person identified in the air quality operating permit, or identifies a similar minor administrative change at the source;
- (c) Requires more frequent monitoring or reporting by NorthWestern;
- (d) Requires changes in monitoring or reporting requirements that the Department deems to be no less stringent than current monitoring or reporting requirements;
- (e) Allows for a change in ownership or operational control of a source if the Department has determined that no other change in the air quality operating permit is necessary, consistent with ARM 17.8.1225; or
- (f) Incorporates any other type of change, which the Department has determined to be similar to those revisions set forth in (a)-(e), above.

"Applicable requirement" means all of the following as they apply to emission units in a source requiring an air quality operating permit (including requirements that have been promulgated or approved by the Department or the administrator through rule making at the time of issuance of the air quality operating permit, but have future-effective compliance dates, provided that such requirements apply to sources covered under the operating permit):

- (a) Any standard, rule, or other requirement, including any requirement contained in a consent decree or judicial or administrative order entered into or issued by the Department, that is contained in the Montana state implementation plan approved or promulgated by the administrator through rule making under Title I of the FCAA;
- (b) Any federally enforceable term, condition or other requirement of any air quality preconstruction permit issued by the Department under Subchapters 7, 8, 9, and 10 of this chapter, or pursuant to regulations approved or promulgated through rule making under Title I of the FCAA, including parts C and D;
- (c) Any standard or other requirement under Section 7411 of the FCAA, including Section 7411(d);
- (d) Any standard or other requirement under Section 7412 of the FCAA, including any requirement concerning accident prevention under Section 7412(r)(7), but excluding the contents of any risk management plan required under Section 7412(r);
- (e) Any standard or other requirement of the acid rain program under Title IV of the FCAA or regulations promulgated thereunder;
- (f) Any requirements established pursuant to Section 7661c(b) or Section 7414(a)(3) of the FCAA;
- (g) Any standard or other requirement governing solid waste incineration, under Section 7429 of the FCAA;
- (h) Any standard or other requirement for consumer and commercial products, under Section 7511b(e) of the FCAA;
- (i) Any standard or other requirement for tank vessels, under Section 7511b(f) of the FCAA;

- (j) Any standard or other requirement of the regulations promulgated to protect stratospheric ozone under Title VI of the FCAA, unless the administrator determines that such requirements need not be contained in an air quality operating permit;
- (k) Any national ambient air quality standard or increment or visibility requirement under part C of Title I of the FCAA, but only as it would apply to temporary sources permitted pursuant to Section 7661c(e) of the FCAA; or
- (l) Any federally enforceable term or condition of any air quality open burning permit issued by the Department under subchapter 6.

**"Department"** means the Montana Department of Environmental Quality.

**"Emissions unit"** means any part or activity of a stationary source that emits or has the potential to emit any regulated air pollutant or any pollutant listed under Section 7412(b) of the FCAA. This term is not meant to alter or affect the definition of the term "unit" for purposes of Title IV of the FCAA.

**"FCAA"** means the Federal Clean Air Act, as amended.

**"Federally enforceable"** means all limitations and conditions which are enforceable by the administrator, including those requirements developed pursuant to 40 CFR Parts 60 and 61, requirements within the Montana state implementation plan, and any permit requirement established pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, including operating permits issued under an EPA approved program that is incorporated into the Montana state implementation plan and expressly requires adherence to any permit issued under such program.

**"Fugitive emissions"** means those emissions, which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.

**"General air quality operating permit" or "general permit"** means an air quality operating permit that meets the requirements of ARM 17.8.1222, covers multiple sources in a source category, and is issued in lieu of individual permits being issued to each source.

**"Hazardous air pollutant"** means any air pollutant listed as a hazardous air pollutant pursuant to section 112(b) of the FCAA.

**"Non-federally enforceable requirement"** means the following as they apply to emission units in a source requiring an air quality operating permit:

- (a) Any standard, rule, or other requirement, including any requirement contained in a consent decree, or judicial or administrative order entered into or issued by the Department, that is not contained in the Montana state implementation plan approved or promulgated by the administrator through rule making under Title I of the FCAA;
- (b) Any term, condition or other requirement contained in any air quality preconstruction permit issued by the Department under subchapters 7, 8, 9, and 10 of this chapter that is not federally enforceable; and
- (c) Does not include any Montana ambient air quality standard contained in subchapter 2 of this chapter.

**"Permittee"** means the owner or operator of any source subject to the permitting requirements of this subchapter, as provided in ARM 17.8.1204, that holds a valid air quality operating permit or has submitted a timely and complete permit application for issuance, renewal, amendment, or modification pursuant to this subchapter.

**"Regulated air pollutant"** means the following:

- (a) Nitrogen oxides or any volatile organic compounds;
- (b) Any pollutant for which a national ambient air quality standard has been promulgated;
- (c) Any pollutant that is subject to any standard promulgated under Section 7411 of the FCAA;
- (d) Any Class I or II substance subject to a standard promulgated under or established by Title VI of the FCAA;
- (e) Any pollutant subject to a standard or other requirement established or promulgated under Section 7412 of the FCAA, including but not limited to the following: and
  - (i) Any pollutant subject to requirements under Section 7412(j) of the FCAA. If the administrator fails to promulgate a standard by the date established in Section 7412(e) of the FCAA, any pollutant for which a subject source would be major shall be considered to be regulated on the date 18 months after the applicable date established in section 7412(e) of the FCAA; and
  - (ii) Any pollutant for which the requirements of Section 7412(g)(2) of the FCAA have been met but only with respect to the individual source subject to Section 7412(g)(2).

**"Responsible official"** means one of the following:

- (a) For a corporation: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
  - (i) The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or
  - (ii) The delegation of authority to such representative is approved in advance by the Department.
- (b) For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
- (c) For a municipality, state, federal, or other public agency: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a regional administrator of the environmental protection agency); or
- (d) For affected sources: the designated representative in so far as actions, standards, requirements, or prohibitions under Title IV of the FCAA or the regulations promulgated thereunder are concerned, and the designated representative for any other purposes under this subchapter.

**Abbreviations:**

AFR	Air to Fuel Ratio
ARM	Administrative Rules of Montana
BACT	Best Available Control Technology
Btu	British thermal unit
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
EPA	U.S. Environmental Protection Agency
EU	emissions unit
FCAA	Federal Clean Air Act
FERC	Federal Energy Regulatory Commission
HAP	hazardous air pollutant
hp	horse power
hr	hour
hr/yr	hours per year
IEU	insignificant emissions unit
lb/hr	pounds per hour
MCA	Montana Code Annotated
MBtu	thousand British thermal units
MMBtu	million British thermal units
MMscf	million standard cubic feet
MPSC	Montana Public Service Commission
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NG	natural gas
NO <sub>x</sub>	oxides of nitrogen
NSPS	New Source Performance Standards
O <sub>2</sub>	oxygen
Pb	lead
PM	particulate matter
PM <sub>10</sub>	particulate matter less than 10 microns in size
ppm	parts per million
psi	pounds per square inch
rpm	revolutions per minute
scf	standard cubic feet
SIC	Source Industrial Classification
SO <sub>x</sub>	oxides of sulfur
SO <sub>2</sub>	sulfur dioxide
TPY	tons per year
USC	United States Code
VE	visible emissions
VOC	volatile organic compound

## **APPENDIX C - NOTIFICATION ADDRESSES**

### **Compliance Notifications:**

Montana Department of Environmental Quality  
Permitting and Compliance Division  
Air and Waste Management Bureau  
P.O. Box 20091  
Helena, MT 59620-0901

USEPA – Region 8  
Montana Office  
Air Program Coordinator  
10W 15<sup>th</sup> Suite 3200  
Helena, MT 59626

### **Permit Modifications:**

Montana Department of Environmental Quality  
Permitting and Compliance Division  
Air and Waste Management Bureau  
P.O. Box 20091  
Helena, MT 59620-0901

Office of Partnerships and Regulatory Assistance  
Air and Radiation Program  
US EPA Region VIII 8P-AR  
999 18th Street, Suite 300  
Denver, Colorado 80202-2466





## APPENDIX D - AIR QUALITY INSPECTOR INFORMATION

**Disclaimer:** The information in this appendix is not State or Federally enforceable but is presented to assist the permittee, permitting authority, inspectors, and the public.

1. **Directions to Plant:** The Telstad facility is located near the radio tower approximately 14 miles east of Shelby in Toole County.
2. **Safety Equipment Required:** Hard hat, safety glasses, and hearing protection are required at the facility. In addition to the above mentioned items, and at the direction of NorthWestern, additional PPE may be required, including but not limited to Nomex<sup>R</sup> clothing, respirators, etc.
3. **Facility Plot Plan:** The plot plan as submitted on 06/07/96 as part of the permittee's Title V Operating Permit Application.